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Ten Stars of Class B Having the Hα Line Bright
Fifth List[1]

Hα has been observed as an emission line in the spectra of the stars in the following list, on photographs made with the 10-inch Cooke refractor and 15° objective prism, on the dates indicated. The observations marked "100-inch" or "60-inch" were made with single-prism split spectrographs attached to one of the large reflectors, and are of the usual photographic region. On each slit spectogram Hβ appears as a bright line, and in some cases Hγ also is bright.

Star	R. A. 1900	Dec. 1900	Spect.	Mag.	Date	Obs.	
H. D. 154243	16h 59.2m	—36°27′	B5	8.3	1921, July 6	H	
					" 7	H	
					" 26	H	100-inch
H. D. 154450	17 0.4	—35 37	B0	8.5	1921, July 6	H	
					" 7	H	
					1922, June 15	H	100-inch
					July 12	M	100-inch
H. D. 156468	17 12.6	—37 54	B3	8.0	1921, July 6	H	
					" 7	H	
					1922, June 14	H	100-inch
H. D. 160202	17 33.5	—32 9	B8	6.9	1920, Aug. 4	H	
					" 5	H	
					" 9	H	
					1921, Mar. 30	H	100-inch
					July 6	H	
					" 7	H	
H. D. 161103	17 38.5	—27 12	B0	7.9	1920, Aug. 4	H	
					" 5	H	
					" 9	H	
					1921, July 6	H	
					" 7	H	
					Aug. 12	M	100-inch
H. D. 161306	17 39.7	—9 46	B	8.3	1921, Aug. 1	H	
					" 11	M	100-inch
DM —27°11944	17 41.9	—27 59	Bp	9.0	1920, Aug. 4	H	
					" 5	H	
					" 9	H	
					1921, Mar. 30	H	100-inch
					June 21	M	100-inch

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[1] Previous lists appear in these *Publications*, **32**, 336, 1920; **33**, 112 and 264, 1921; **34**, 223, 1922.

					July 6	H	
					" 7	H	
					1922, May 16	M	100-inch
H. D. 163868	17 53.3	—33 24	B3	7.2	1920, Aug. 4	H	
					" 5	H	
					" 6	H	
					" 7	H	
					1921, July 6	H	
					" 7	H	
					Aug. 24	H	100-inch
H. D. 166566	18 6.1	—15 42	B2	8.1	1921, Aug. 1	H	
					" 15	M	60-inch
H. D. 168229	18 13.6	—18 16	B	9.7	1921, Aug. 1	H	
					1922, June 14	H	100-inch

NOTES

H. D. 154450	Remark in H. D., "The lines are indistinct." On the slit spectrograms bright Hβ is strong.
H. D. 160202	The bright portion of Hβ is weak and inconspicuous.
DM —27°11944	A most remarkable spectrum. Bright Hα and Bβ are extremely strong compared with the continuous spectrum. Numerous bright lines are present, most of which are due to hydrogen, helium, or iron (enhanced). They are broad and have absorption borders on the violet side as in P *Cygni*.
H. D. 163868	The bright Hβ is weak.
H. D. 166566	The bright Hβ is weak and narrow.

Milton L. Humason.
Paul W. Merrill.

Note on the Spectrum of RY Scuti, B. D.—12°5045

H. D. 169515 R. A. 1900=$18^h19.9^m$; Dec. 1900=—12°45′; Mag. Var.; Spectrum Pec.

The bright lines present in this spectrum in August, 1921 (including the nebular line λ 4658) were described in these Publications for April, 1922, page 134. An additional slit spectrogram, secured by Mr. Humason on May 17, 1922, shows little if any change from the 1921 plates. The hydrogen lines Hβ and Hγ are clearly marked, narrow emission lines. Absorption borders, if present at Hβ, are very weak; at Hγ there appears to be some absorption, chiefly on the violet side of the bright line. This effect at Hγ is best seen on a seven-inch